

**METHOD AND APPARATUS TO TUNE ROTOR'S TORSIONAL NATURAL  
FREQUENCY BY GEOMETRY OF ROTOR WINDING SLOT**

**Abstract of the Disclosure**

A method and apparatus for tuning the torsional natural frequency of a rotor is disclosed. At least one tuning slot is formed within the winding slots defined by radially projecting winding teeth. The tuning slot extends radially inward from the bottom of the winding slot a distance to tune the rotor to a desired torsional natural frequency. This tuning slot can be positioned preferably at the quadrature axis.

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